

even though the power consumption related to a specific mode may be neither unique nor constant. The more functions in the device that are accessible for the user, the more different modes can be defined. Consequently, with the advances in useable services and functions in electronic devices such as mobile phones, it is more and more rare that the user is actually in something that can be easily defined as standby mode or talk mode, but rather in a power consumption situation somewhere in between. The estimated battery time left as presented on the terminal display is therefore not always reliable.

According to an embodiment of the present invention, the status indication of the device therefore includes a power consumption gauge. Fig. 2 illustrates the status window 21, presentable on a display 12, for a radio communication terminal according to the prior art. As previously described, the estimated time left before a battery recharge is needed is expressed in standby time x and talk-time y.

Fig. 3, however, discloses a status presentation according to an embodiment of the invention. Regardless of the present mode in which the terminal is running, the current power consumption of the battery is measured and presented on the display. The power consumption may be presented as a direct measurement of the consumption, in e.g. mA/s. Alternatively, and as illustrated, the consumption may be presented as a power consumption symbol 22, in which a parameter value in a predetermined scale or range is indicated. In the example of Fig. 3, the current power consumption is displayed in a scale from A to B, wherein the current level is given by a graphical filling effect 23, or e.g. a colour scale. This scale may be given in absolute numbers, such as mA/s, or in a less specific unit. In one embodiment a percentage scale is used, wherein the lower level A is indicated as 0 %, whereas the upper scale B is indicated as 100 %. According to one useable definition, 100 % indicates the most demanding mode meaning the operable mode rendering the highest power consumption, whereas 0 % indicates standby mode. In this case, talk mode would be somewhere between 0 and 100 %, and an indication of the power consumption representative of talk mode may also be given in the gauge bar of such an embodiment, though not shown.

Furthermore, as illustrated in Fig. 3, the remaining time may be calculated for and expressed in terms of the currently used mode, and be directly displayed in the status window as actual time z. The drawing in Fig. 3 illustrates both the gauge bar 22 and the actual time indication, but other embodiments may incorporate only one of these.

Fig. 4 illustrates the default window 41 of a radio communication terminal according to the state of the art. By default window is here meant the items shown on the terminal display when no call is in progress, i.e. in standby mode. In this

Claims

1. A battery-driven electronic device which is operable in different modes with related power consumption, comprising data presentation means, **characterised in**  
5 that said device comprises power consumption detecting means for establishing current power consumption during operation of the device, and means for presenting data dependent on established current power consumption through said data presentation means.
- 10 2. The battery-driven device as recited in claim 1, **characterised in** that said device comprises means for calculating a level indicating parameter value representing the established power consumption as a parameter level value in a predetermined scale.
- 15 3. The battery-driven device as recited in claim 2, **characterised in** that said presented data comprises said parameter level value and a preset value of said scale.
4. The battery-driven device as recited in any of the previous claims, **characterised in** that said device comprises means for calculating remaining  
20 battery time dependent on the established current power consumption.
5. The battery-driven device as recited in claim 4, **characterised in** that said presented data comprises an indication of the calculated remaining battery time dependent on the currently running mode.  
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6. The battery-driven device as recited in any of the previous claims, **characterised in** that said data presentation means comprises a display.
7. The battery-driven device as recited in any of the previous claims,  
30 **characterised in** that said device is a radio communication terminal.
8. A computer program product for a battery-driven device comprising a microprocessor unit and data presentation means, said computer program product including computer program code which, when executed by the microprocessor  
35 unit, triggers the microprocessor unit to detect current power consumption during operation of the device, and to present data dependent on detected current power consumption through said data presentation means.
9. The computer program product as recited in claim 8, further comprising

computer program code, which, when executed by the microprocessor unit, triggers the microprocessor unit to calculate a level indicating parameter value representing the detected power consumption as a parameter level value in a predetermined scale.

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10. The computer program product as recited in claim 9, further comprising computer program code, which, when executed by the microprocessor unit, triggers the microprocessor unit to present said parameter level value and a predetermined end value of said scale.

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11. The computer program product as recited in any of the claims 8 to 10, further comprising computer program code, which, when executed by the microprocessor unit, triggers the microprocessor unit to calculate remaining battery time dependent on the detected current power consumption.

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12. The computer program product as recited in claim 11, further comprising computer program code, which, when executed by the microprocessor unit, triggers the microprocessor unit to present an indication of the calculated remaining battery time dependent on the currently running mode.

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13. The computer program product as recited in any of the previous claims 8 to 12, further comprising computer program code, which, when executed by the microprocessor unit, triggers the microprocessor unit to effect presentation on a display.

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14. The computer program product as recited in any of the previous claims 8 to 13, wherein said battery-driven device is a radio communication terminal.